Atty. Docket No. PIA31223/DBE/US Scrial No: 10/751,212

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Amendments to the Claims

Please cancel Claims 2 and 11, add new Claims 19-22, and amend the remaining claims as follows:

- (Currently Amended) A method for packaging a semiconductor device, 1. comprising the steps of:
 - forming an Au bump on a bond pad of a wafer; (a)
 - dicing the wafer into a chip; and (b)
- attaching the Au bump of the chip to a copper pattern embedded in a (c) substrate to form a flip-chip bond using a thermo-pressure process, wherein the Au bump is connected directly to the bond pad of the chip and connected to the substrate through multistacked metal an Ag layer and a Cu layer[[s]], and has a pillar shape.
 - 2. (Canceled)

(¢).

- (Previously Presented) The method of claim 1, further comprising the step of 3. encapsulating the flip-chip bond using a nonconductive epoxy after step (d)
 - (Previously Presented) The method of claim 3, further comprising the step of 4.
 - sawing the substrate to singulate individual packages. (c)
- (Previously Presented) The method of claim 1, wherein the thermo-pressure 5. process comprises attaching the Au bump to a copper pattern in the substrate.
- (Previously Presented) The method of claim 5, further comprising forming a б. plating lead on an opposite side of the substrate from the chip.

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- 7. (Previously Presented) The method of claim 6, wherein forming the plating lead comprises plating an AgSn layer on the copper pattern.
- 8. (Previously Presented) The method of claim 2, wherein the Ag layer directly contacts the Au bump.
- 9. (Previously Presented) The method of claim 2, wherein the Cu layer directly contacts the substrate.
- 10. (Currently Amended) A method for packaging a semiconductor device, comprising the steps of:
 - (a) forming a pillar-shaped Au bump directly on a bond pad of a wafer;
 - (b) dicing the wafer into a chip; and
- (c) attaching the pillar-shaped Au bump of the chip to a copper pattern embedded in a substrate through a plurality of metal layers comprising an Ag layer and a Cu layer to form a flip-chip bond using a thermo-pressure process.
 - 11. (Canceled)
 - 12. (Previously Presented) The method of claim 10, further comprising the step of(d) encapsulating the flip-chip bond using a nonconductive epoxy after step

(c).

- 13. (Previously Presented) The method of claim 12, further comprising the step of
 - (c) sawing the substrate to singulate individual packages.

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- (Previously Presented) The method of claim 10, wherein the thermo-pressure 14. process comprises attaching the Au bump to a copper pattern in the substrate.
- (Previously Presented) The method of claim 14, further comprising forming a 15. plating lead on an opposite side of the substrate from the chip.
- (Previously Presented) The method of claim 15, wherein forming the plating lead 16. comprises plating an AgSn layer on the copper pattern.
- (Previously Presented) The method of claim 11, wherein the Ag layer directly 17. contacts the Au bump.
- (Previously Presented) The method of claim 11, wherein the Cu layer directly 18. contacts the substrate.
- (New) The method of claim 1, wherein the substrate has a trench, and the Au 19. bump of the chip is attached to the copper pattern in the trench.
- (New) The method of claim 10, wherein the substrate has a trench, and the Au 20. bump of the chip is attached to the copper pattern in the trench.
- (New) The method of claim 1, wherein the Ag layer contacts the Au bump and 21. the Cu layer, and the Cu layer contacts the copper pattern.
- (New) The method of claim 10, wherein the Ag layer contacts the Au bump and 22. the Cu layer, and the Cu layer contacts the copper pattern.